

Indus University
Indus Institute of Technology & Engineering
Department of Electrical Engineering

M.Tech in Electrical Engineering (Electrical Power System)

Semester I Teaching Scheme

Subject Code	Subject	Teaching Learning				Credit
		Theory Session (Hrs.)	ELC (Hrs.)	Laboratory Session (Hrs.)	Total (Hrs.)	
EPS101	Overvoltage Transients in Power system	3	2		5	4
EPS102	Power System Modelling & Analysis	3	2		5	4
EPS103	Modern Control System	3		2	5	4
EPS104	Advanced Power System Operation & Control	3		2	5	4
EPS105	Power Quality	3	2		5	4
EPS106 /107	Elective-I	3	2		5	4
Total		18	8	4	30	24

ELC: Enhanced Learning Component

Electives-Semester I
EPS106 - Solar & wind Energy system
EPS107 - Energy Management & Audit

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Semester II Teaching Scheme

Subject Code	Subject	Teaching Learning				Credit
		Theory Session (Hrs.)	ELC (Hrs.)	Laboratory Session (Hrs.)	Total (Hrs.)	
EPS201	Advanced Power System Protection	3		2	5	4
EPS202	Optimization Techniques	4	2		6	5
EPS203	Advanced Power System Stability	3	2		5	4
EPS204	HVDC & FACTS	3	2		5	4
EPS205	Substation Design & Automation	3	2		5	4
EPS206/207	Elective-II	3	2		5	4
EPS208	Simulation Lab			2	2	1
Total		19	10	4	33	26

Electives-Semester II

EPS206 - Application of Artificial Intelligence

EPS207 - Distributed Generation & Micro grid
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Semester III Teaching Scheme

Subject Code	Subject	Teaching Learning				Credit
		Theory Session (Hrs.)	ELC (Hrs.)	Laboratory Session (Hrs.)	Total (Hrs.)	
EPS301	Dissertation Phase I					20
Total						20

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Semester IV Teaching Scheme

Subject Code	Subject	Teaching Learning				Credit
		Theory Session (Hrs.)	ELC (Hrs.)	Laboratory Session (Hrs.)	Total (Hrs.)	
EPS401	Dissertation Phase II					20
Total						20